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NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28 Oct 21 EVENTLINE has been reloaded
NEWS 29 Oct 24 BEILSTEIN adds new search fields
NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002

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=> s thielavia (5a)(endoglucanase or cellul?)

L1 74 THIELAVIA (5A)(ENDOGLUCANASE OR CELLUL?)

=> s l1 (10a)(muata? or variant or hybrid or substitut?)

L2 2 L1 (10A)(MUATA? OR VARIANT OR HYBRID OR SUBSTITUT?)

=> s l1 (10a)(muta? or variant or hybrid or substitut?)

7 FILES SEARCHED...

L3 6 L1 (10A)(MUTA? OR VARIANT OR HYBRID OR SUBSTITUT?)

=> s l3 and (118 or 119)

L4 1 L3 AND (118 OR 119)

=> d

L4 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:197598 HCAPLUS

DN 128:254595

TI Cellulase variants with altered sensitivity to anion tensides and pH activity profiles

IN Andersen, Kim Vilbour; Schulein, Martin; Christiansen, Lars; Damgaard, Bo

PA Novo Nordisk A/S, Den.; Andersen, Kim Vilbour; Schulein, Martin;

Christiansen, Lars; Damgaard, Bo

SO PCT Int. Appl., 115 pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9812307	A1	19980326	WO 1997-DK393	19970917
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9742007	A1	19980414	AU 1997-42007	19970917
	BR 9711479	A	19990824	BR 1997-11479	19970917
	EP 937138	A1	19990825	EP 1997-939989	19970917
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI			
	CN 1230987	A	19991006	CN 1997-197983	19970917
	JP 2000514311	T2	20001031	JP 1998-514200	19970917
PRAI	DK 1996-1013	A	19960917		
	WO 1997-DK393	W	19970917		

=> dup rem l3

PROCESSING COMPLETED FOR L3

L5 4 DUP REM L3 (2 DUPLICATES REMOVED)

=> d 1-4

L5 ANSWER 1 OF 4 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI
AN 1998-06599 BIOTECHDS
TI New cellulase enzyme variants;
enzyme engineering
AU Andersen K V; Schyelein M; Christiansen L; Damgaard B
PA Novo-Nordisk
LO Bagsvaerd, Denmark.
PI WO 9812307 26 Mar 1998
AI WO 1997-DK393 17 Sep 1997
PRAI DK 1996-1013 17 Sep 1996
DT Patent
LA English
OS WPI: 1998-217251 [19]

L5 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2002 ACS
AN 1995:422057 HCAPLUS
DN 122:234037
TI Isolation and properties of a thermostable endoglucanase from a
thermophilic mutant strain of Thielavia terrestris
AU Kvesitadze, Edisher G.; Lomitashvili, Tamara B.; Khutsishvili, Maia P.;
Lamed, Raphael; Bayer, Edward A.
CS Inst. Plant Biochem., Tbilisi, 380059, Georgia
SO Applied Biochemistry and Biotechnology (1995), 50(2), 137-43
CODEN: ABIBDL; ISSN: 0273-2289
PB Humana
DT Journal
LA English

L5 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2002 ACS
AN 1990:154151 HCAPLUS
DN 112:154151
TI The cellulase complex of the thermophilic ascomycete,
Thielavia terrestris: production, **mutation**, and
characterization of the component enzymes
AU Zitomer, Stephanie W.
CS UMDNJ, Rutgers, State Univ., New Brunswick, NJ, USA
SO (1989) 314 pp. Avail.: Univ. Microfilms Int., Order No. DA8923634
From: Diss. Abstr. Int. B 1990, 50(7), 2762-3
DT Dissertation

LA English

L5 ANSWER 4 OF 4 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

AN 1987-05586 BIOTECHDS

TI Cellulase screening by iodine staining: an artefact;
hydrolysis zones around colonies on cellulose-agar media are caused by
starch hydrolysis and not cellulolysis

AU Zitomer S W; Eveleigh D E

LO Department of Biochemistry and Microbiology, Cook College, Rutgers
University, New Brunswick, NJ 08903, USA.

SO Enzyme Microb.Technol.; (1987) 9, 4, 214-16
CODEN: EMTED2

DT Journal

LA English

=> d 2-4 ab

L5 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2002 ACS

AB A heat-stable enzyme was isolated from the cellulase complex of a
thermophilic strain of the micromycete *Thielavia terrestris*. The purified
enzyme exhibited both endoglucanase and xylanase activities and had a mol
mass of 69,000 Daltons and an isoelec. point of 6.4. When the cells were
grown at 48.degree.C, the initial activity of the purified enzyme using
CM-cellulose as a substrate was 150 nkat/mg and the Michaelis const. was
6.6 g/L. The heat stability of the enzyme was high, losing only 20% of
the initial activity after a 6-h incubation at 65.degree.C. When cultures
were grown on microcryst. cellulose and xylose was added after 48 h of
growth, endoglucanase and xylanase activities were more than doubled.
Similar increases in these activities were obsd. by growing the cultures
on straw.

L5 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2002 ACS

AB Unavailable

L5 ANSWER 4 OF 4 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

AB Cellulolytic fungi, *Trichoderma reesei* QM6a, hypercellulolytic RUT C30,
cellulase-negative mutant QM9136 and thermophilic
Thielavia terrestris NRRL 8126, as well as crude endoglucanases
and amylases, were incubated on cellulose-agar media, and hydrolysis
zones were visualized by iodine (KI/12) staining. However, hydrolysis
zones were shown to be due to degradation of the starch in the agar and
not to cellulolysis as has previously been suggested. Crude amylases and
cellulases produced identical iodine-visualized hydrolysis zones in agar
alone and in Avicel-agar. Equivalent zones were produced by these
enzymes in starch media. No zones were observed when amylase-digested
agar or Gelrite was used as the gelling agent or when purified
cellobiohydrolase (EC-3.2.1.91) and endoglucanase (EC-3.2.1.4) were used.
Cellulase screening is best obtained by growing cultures on acid-swollen
or crystalline cellulose with Gelrite as gelling agent, followed by
incubation at elevated temp. to enhance visualization of hydrolysis zones
while restricting fungal growth, but without additional staining. (22
ref)

=> s l1 and humicola

L6 5 L1 AND HUMICOLA

=> dup rem l6

PROCESSING COMPLETED FOR L6

L7 3 DUP REM L6 (2 DUPLICATES REMOVED)

=> d 1-3

L7 ANSWER 1 OF 3 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI

AN 1998-06599 BIOTECHDS

TI New cellulase enzyme variants;
enzyme engineering

AU Andersen K V; Schyelein M; Christiansen L; Damgaard B

PA Novo-Nordisk
LO Bagsvaerd, Denmark.
PI WO 9812307 26 Mar 1998
AI WO 1997-DK393 17 Sep 1997
PRAI DK 1996-1013 17 Sep 1996
DT Patent
LA English
OS WPI: 1998-217251 [19]

L7 ANSWER 2 OF 3 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI
AN 1988-00512 BIOTECHDS
TI A comparison of the thermostability of cellulases from different
thermophilic fungi;
Thielavia terrestris, Sporotrichum thermophile, Aspergillus terreus,
Thermoascus aurantiacus and Humicola sp. etc. (conference
abstract)

AU Breuil C; Wojtczak G; Saddler J N
CS Forintek-Canada
LO Biotechnology and Chemistry Department, Forintek Canada Corp., 800
Montreal Road, Ottawa, Ontario, K1G 3Z5, Canada.
SO Abstr.Can.Soc.Microbiol.; (1986) 36 Meet., 69
DT Journal
LA English

L7 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1978:254679 BIOSIS
DN BA66:67176
TI CELLULOSE AND LIGNO CELLULOSE DEGRADATION BY THERMOPHILIC AND THERMO
TOLERANT FUNGI.

AU ROSENBERG S L
CS ENERGY ENVIRON. DIV., LAWRENCE BERKELEY LAB., UNIV. CALIF., BERKELEY,
CALIF. 94720, USA.
SO MYCOLOGIA, (1978) 70 (1), 1-13.
CODEN: MYCOAE. ISSN: 0027-5514.
FS BA; OLD
LA English

=> d 2,3 ab

L7 ANSWER 2 OF 3 BIOTECHDS COPYRIGHT 2002 THOMSON DERWENT AND ISI
AB It is extremely difficult to maintain large-scale fermentation processes
under completely aseptic conditions. Contamination is usually kept to a
minimum by factors such as a large initial inoculum, a short, fast batch
culture, or by growth at extreme conditions, e.g. low pH, anaerobic, or
elevated temp. Thermophilic fungi which are able to grow on
lignocellulosic substrates at over 45 deg should produce a cellulase
(EC-3.2.1.4) system which can operate at elevated temps. A range of
thermophilic fungi from the Forintek culture collection was screened for
cellulases with greater stability and rate of reaction than that of e.g.
Trichoderma reesei. Various thermophilic fungi, e.g. Thielavia
terrestris, Sporotrichum thermophile, Aspergillus terreus, Thermoascus
aurantiacus and Humicola sp., produce a complete extracellular
cellulase system. The thermostability of the extracellular and
cell-associated cellulases was determined at different temp. for various
periods. A comparison of the various cellulolytic systems and their
hydrolytic activities was presented. (0 ref)

L7 ANSWER 3 OF 3 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB Twenty-one spp. [Allescheria terrestris, Aspergillus fumigatus, Chaetomium
thermophile var. coprophile, C. thermophile var. dissitum, Chrysosporium
prunosum, Humicola grisea var. thermoidea, H. insolens, H.
lanuginosa, Malbranchea pulchella var. sulfurea, Mucor miehei, M.
pusillus, Myriococcum albomyces, Sporotrichum pulverulentum, S.
thermophila, Stilbella thermophila, Talaromyces emersonii, T.
thermophilus, Thermoascus aurantiacus, Thermomyces stellatus, Thielavia
thermophila and Torula thermophila] of thermophilic and thermotolerant
fungi were tested for the ability to degrade cellulose and
lignocellulose. Thielavia thermophila is newly described as

cellulolytic. Only C. pruium and S. pulverulentum were found to degrade lignocellulose extensively. In a number of cases the moisture content of the solid substrate influenced degradation by the species tested.

=> s humicola (5a) (endoglucanase or cellul?)

L8 641 HUMICOLA (5A) (ENDOGLUCANASE OR CELLUL?)

=> s l8 (10a) (muta? or variant or hybrid or substitut?)

7 FILES SEARCHED...

L9 44 L8 (10A) (MUTA? OR VARIANT OR HYBRID OR SUBSTITUT?)

=>

=> s l9 and 119

L10 2 L9 AND 119

=> dup rem l10

PROCESSING COMPLETED FOR L10

L11 2 DUP REM L10 (0 DUPLICATES REMOVED)

=> d 1,2

L11 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AN 1998:197598 HCAPLUS

DN 128:254595

TI Cellulase variants with altered sensitivity to anion tensides and pH activity profiles

IN Andersen, Kim Vilbour; Schulein, Martin; Christiansen, Lars; Damgaard, Bo

PA Novo Nordisk A/S, Den.; Andersen, Kim Vilbour; Schulein, Martin;

Christiansen, Lars; Damgaard, Bo

SO PCT Int. Appl., 115 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9812307	A1	19980326	WO 1997-DK393	19970917
	W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
	AU 9742007	A1	19980414	AU 1997-42007	19970917
	BR 9711479	A	19990824	BR 1997-11479	19970917
	EP 937138	A1	19990825	EP 1997-939989	19970917
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI			
	CN 1230987	A	19991006	CN 1997-197983	19970917
	JP 2000514311	T2	20001031	JP 1998-514200	19970917
PRAI	DK 1996-1013	A	19960917		
	WO 1997-DK393	W	19970917		

L11 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AN 1994:429903 HCAPLUS

DN 121:29903

TI Cellulase variants and their use in washing compositions

IN Schulein, Martin; Fredholm, Henrik; Hjort, Carsten Mailand; Rasmussen, Grethe; Nielsen, Egon; Rosholm, Peter

PA Novo Nordisk A/S, Den.

SO PCT Int. Appl., 82 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9407998	A1	19940414	WO 1993-DK327	19931006
	W: BR, FI, JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP	663950	A1	19950726	EP 1993-922899	19931006
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP	08501692	T2	19960227	JP 1993-508604	19931006
BR	9307198	A	19990330	BR 1993-7198	19931006
FI	9501629	A	19950405	FI 1995-1629	19950405
US	5792641	A	19980811	US 1995-411777	19950505
US	6114296	A	20000905	US 1998-57088	19980408
PRAI	DK 1992-1221	A	19921006		
	DK 1992-1222	A	19921006		
	DK 1992-1223	A	19921006		
	DK 1992-1224	A	19921006		
	DK 1992-1225	A	19921006		
	DK 1992-1513	A	19921218		
	DK 1992-1515	A	19921218		
	DK 1992-1543	A	19921223		
	WO 1993-DK327	W	19931006		

=> d 2 kwic

L11 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

AB . . . are in detergent compns., for textile treatment, in paper pulp processing, for animal feed and for stone washing of jeans.
Variants of Humicola insolens endoglucanase
 were prepd. by site-specific mutagenesis of the gene and expression of the mutant in Aspergillus oryzae. Resistance to peroxidase and anionic surfactants and improved washing. . .

IT Aspergillus
 Bacillus lautus
 Fusarium
 Humicola
 Humicola insolens
 Irpex
 Myceliophthora
 Penicillium
Pseudomonas
 Trichoderma

(cellulase of, variants for use in detergents of)

IT 146635-97-4, [Pro-78]endoglucanase (Humicola insolens) 156067-66-2,
 [Ser-221]endoglucanase (Humicola insolens) 156067-67-3,
 [Thr-221]endoglucanase (Humicola insolens) 156067-68-4,
 [Pro-221]endoglucanase (Humicola insolens) 156067-69-5,
 [Ser-222]endoglucanase (Humicola insolens) 156067-70-8,
 [Thr-222]endoglucanase (Humicola insolens) 156067-71-9,
 [Pro-222]endoglucanase (Humicola insolens) 156067-72-0,
 [Ser-223]endoglucanase (Humicola insolens) 156067-73-1,
 [Thr-223]endoglucanase (Humicola insolens) 156067-74-2,
 [Pro-223]endoglucanase (Humicola insolens) 156067-75-3,
 [Ser-240]endoglucanase (Humicola insolens) 156067-76-4,
 [Thr-240]endoglucanase (Humicola insolens) 156067-77-5,
 [Pro-240]endoglucanase (Humicola insolens) 156067-78-6,
 [Ser-241]endoglucanase (Humicola insolens) 156067-79-7,
 [Thr-241]endoglucanase (Humicola insolens) 156067-80-0,
 [Pro-241]endoglucanase (Humicola insolens) 156067-81-1,
 [Ser-251]endoglucanase (Humicola insolens) 156067-82-2,
 [Gln-251]endoglucanase (Humicola insolens) 156067-83-3,
 [Asn-251]endoglucanase (Humicola insolens) 156067-84-4,
 [Pro-251]endoglucanase (Humicola insolens) 156067-85-5,
 [Leu-252]endoglucanase (Humicola insolens) 156067-86-6,
 [Gln-252]endoglucanase (Humicola insolens) 156067-87-7,
 [His-252]endoglucanase (Humicola insolens) 156067-88-8,
 [Glu-268]endoglucanase (Humicola insolens) 156067-89-9,
 [Glu-269]endoglucanase (Humicola insolens) 156067-90-2,
 [Arg-269]endoglucanase (Humicola insolens) 156067-91-3,

[Arg-265]	endoglucanase	(Humicola insolens)	156067-92-4,
[Glu-265]	endoglucanase	(Humicola insolens)	156067-93-5,
[Tyr-253]	endoglucanase	(Humicola insolens)	156067-94-6,
[Phe-253]	endoglucanase	(Humicola insolens)	156067-95-7,
[Ser-254]	endoglucanase	(Humicola insolens)	156067-96-8,
[Asp-254]	endoglucanase	(Humicola insolens)	156067-97-9,
[Gly-254]	endoglucanase	(Humicola insolens)	156067-98-0,
[Glu-255]	endoglucanase	(Humicola insolens)	156067-99-1,
[Arg-255]	endoglucanase	(Humicola insolens)	156068-00-7,
[Lys-255]	endoglucanase	(Humicola insolens)	156068-01-8,
[Arg-261]	endoglucanase	(Humicola insolens)	156068-02-9,
[Tyr-261]	endoglucanase	(Humicola insolens)	156068-03-0,
[Phe-261]	endoglucanase	(Humicola insolens)	156068-04-1,
[Ala-262]	endoglucanase	(Humicola insolens)	156068-05-2,
[Asn-262]	endoglucanase	(Humicola insolens)	156068-06-3,
[Asp-262]	endoglucanase	(Humicola insolens)	156068-07-4,
[Arg-274]	endoglucanase	(Humicola insolens)	156068-08-5,
[Arg-275]	endoglucanase	(Humicola insolens)	156068-09-6,
[Gln-275]	endoglucanase	(Humicola insolens)	156068-10-9,
[Asp-276]	endoglucanase	(Humicola insolens)	156068-11-0,
[Gln-276]	endoglucanase	(Humicola insolens)	156068-12-1,
[Asn-276]	endoglucanase	(Humicola insolens)	156068-13-2,
[Gln-277]	endoglucanase	(Humicola insolens)	156068-14-3,
[Asp-277]	endoglucanase	(Humicola insolens)	156068-15-4,
[Pro-278]	endoglucanase	(Humicola insolens)	156068-16-5,
[Tyr-279]	endoglucanase	(Humicola insolens)	156068-17-6,
[Phe-279]	endoglucanase	(Humicola insolens)	156068-18-7,
[Trp-280]	endoglucanase	(Humicola insolens)	156068-19-8,
[Ser-281]	endoglucanase	(Humicola insolens)	156068-20-1,
[Asn-282]	endoglucanase	(Humicola insolens)	156068-21-2,
[Arg-282]	endoglucanase	(Humicola insolens)	156068-22-3,
[Phe-280, Asn-282]	endoglucanase	(Humicola insolens)	156068-23-4,
[Asn-2]	endoglucanase	(Humicola insolens)	156068-24-5,
[Ala-5]	endoglucanase	(Humicola insolens)	156068-25-6,
[Ser-6]	endoglucanase	(Humicola insolens)	156068-26-7,
[Ser-9]	endoglucanase	(Humicola insolens)	156068-27-8,
[Gly-9]	endoglucanase	(Humicola insolens)	156068-28-9,
[Glu-10]	endoglucanase	(Humicola insolens)	156068-29-0,
[Arg-13]	endoglucanase	(Humicola insolens)	156068-30-3,
[Asn-15]	endoglucanase	(Humicola insolens)	156068-31-4,
[Ala-15]	endoglucanase	(Humicola insolens)	156068-32-5,
[Asp-15]	endoglucanase	(Humicola insolens)	156068-33-6,
[His-18]	endoglucanase	(Humicola insolens)	156068-34-7,
[Arg-20]	endoglucanase	(Humicola insolens)	156068-35-8,
[Thr-28]	endoglucanase	(Humicola insolens)	156068-36-9,
[Asn-37]	endoglucanase	(Humicola insolens)	156068-37-0,
[Ser-37]	endoglucanase	(Humicola insolens)	156068-38-1,
[Ala-37]	endoglucanase	(Humicola insolens)	156068-39-2,
[Arg-44]	endoglucanase	(Humicola insolens)	156068-40-5,
[Asn-45]	endoglucanase	(Humicola insolens)	156068-41-6,
[Asp-45]	endoglucanase	(Humicola insolens)	156068-42-7,
[Ala-45]	endoglucanase	(Humicola insolens)	156068-43-8,
[Asp-48]	endoglucanase	(Humicola insolens)	156068-44-9,
[Gln-48]	endoglucanase	(Humicola insolens)	156068-45-0,
[Ala-48]	endoglucanase	(Humicola insolens)	156068-46-1,
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[Asp-55]	endoglucanase	(Humicola insolens)	156068-48-3,
[Asn-58]	endoglucanase	(Humicola insolens)	156068-49-4,
[Ser-58]	endoglucanase	(Humicola insolens)	156068-50-7,
[Ala-58]	endoglucanase	(Humicola insolens)	156068-51-8,
[Ser-59]	endoglucanase	(Humicola insolens)	156068-52-9,
[Ala-59]	endoglucanase	(Humicola insolens)	156068-53-0,
[Gly-59]	endoglucanase	(Humicola insolens)	156068-54-1,
[Arg-65]	endoglucanase	(Humicola insolens)	156068-55-2,
[Arg-66]	endoglucanase	(Humicola insolens)	156068-56-3,
[Asn-66]	endoglucanase	(Humicola insolens)	156068-57-4,
[Arg-67]	endoglucanase	(Humicola insolens)	156068-58-5,
[Asn-67]	endoglucanase	(Humicola insolens)	156068-59-6,
[Asp-74]	endoglucanase	(Humicola insolens)	156068-60-9,

[Asn-74] endoglucanase (Humicola insolens) 156068-61-0,
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 [Arg-96] endoglucanase (Humicola insolens) 156068-64-3,
 [Arg-100] endoglucanase (Humicola insolens) 156068-65-4,
 [Arg-102] endoglucanase (Humicola insolens) 156068-66-5,
 [Arg-103] endoglucanase (Humicola insolens) 156068-67-6,
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 [Ala-113] endoglucanase (Humicola insolens) 156068-75-6,
 [Ile-115] endoglucanase (Humicola insolens) 156068-76-7,
 [Val-115] endoglucanase (Humicola insolens) 156068-77-8,
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 [Arg-118] endoglucanase (Humicola insolens) 156068-95-0, [Gln-119]
] endoglucanase (Humicola insolens) 156068-96-1, [Lys-119]
] endoglucanase (Humicola insolens) 156068-97-2, [Asp-123] endoglucanase
 (Humicola insolens) 156068-98-3, [Glu-123] endoglucanase (Humicola
 insolens) 156068-99-4, [Tyr-123] endoglucanase (Humicola insolens)
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 [His-179] endoglucanase (Humicola insolens) 156069-03-3,
 [Ala-179] endoglucanase (Humicola insolens) 156069-04-4,
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 [Ala-12-Ala-47] endoglucanase (Humicola insolens) 156069-08-8,
 [Asn-37-Ala-58] endoglucanase (Humicola insolens) 156069-09-9,
 [Phe-62] endoglucanase (Humicola insolens) 156069-10-2,
 [Asp-63] endoglucanase (Humicola insolens) 156069-11-3,
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 [Thr-129] endoglucanase (Humicola insolens) 156069-16-8,
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[Gln-146]endoglucanase (Humicola insolens) 156069-31-7,
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 [Asp-176]endoglucanase (Humicola insolens) 156069-35-1,
 [Asp-186]endoglucanase (Humicola insolens) 156069-36-2,
 [Asp-196]endoglucanase (Humicola insolens) 156069-37-3,
 [Gly-175]endoglucanase (Humicola insolens) 156069-38-4,
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 [Ala-9]endoglucanase (Humicola insolens) 156069-42-0,
 [Phe-18]endoglucanase (Humicola insolens) 156069-43-1,
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 [Asp-147]endoglucanase (Humicola insolens)

RL: PRP (Properties); BIOL (Biological study)
 (amino acid sequence of, for use in washing compns.)

IT 141093-56-3, **Endoglucanase** (Humicola insolens)

RL: BIOL (Biological study)
 (variants of, for use in detergents)

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(FILE 'HOME' ENTERED AT 12:13:36 ON 31 OCT 2002)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
 NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 12:13:45 ON 31 OCT 2002

L1 74 S THIELAVIA (5A) (ENDOGLUCANASE OR CELLUL?)
 L2 2 S L1 (10A) (MUTATA? OR VARIANT OR HYBRID OR SUBSTITUT?)
 L3 6 S L1 (10A) (MUTATA? OR VARIANT OR HYBRID OR SUBSTITUT?)
 L4 1 S L3 AND (118 OR 119)
 L5 4 DUP REM L3 (2 DUPLICATES REMOVED)
 L6 5 S L1 AND HUMICOLA
 L7 3 DUP REM L6 (2 DUPLICATES REMOVED)
 L8 641 S HUMICOLA (5A) (ENDOGLUCANASE OR CELLUL?)
 L9 44 S L8 (10A) (MUTATA? OR VARIANT OR HYBRID OR SUBSTITUT?)
 L10 2 S L9 AND 119
 L11 2 DUP REM L10 (0 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	56.40	56.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.24	-1.24

SESSION WILL BE HELD FOR 60 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 12:28:38 ON 31 OCT 2002